Welcome to STN International! Enter x:x

LOGINID: SSSPTA1653HXP

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
NEWS 1
                Web Page URLs for STN Seminar Schedule - N. America
NEWS 2
                 "Ask CAS" for self-help around the clock
NEWS 3 AUG 09
                INSPEC enhanced with 1898-1968 archive
NEWS 4 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 5 AUG 30 CA(SM)/CAplus(SM) Austrian patent law changes
     6 SEP 11
NEWS
                CA/CAplus enhanced with more pre-1907 records
        SEP 21
NEWS 7
                CA/CAplus fields enhanced with simultaneous left and right
                 truncation
        SEP 25
                CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 8
                CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 9
        SEP 25
                CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 10 SEP 25
NEWS 11 SEP 28
                CEABA-VTB classification code fields reloaded with new
                classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
NEWS 13 OCT 19 E-mail format enhanced
NEWS 14 OCT 23 Option to turn off MARPAT highlighting enhancements available
NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
                multiple databases
NEWS 16 OCT 23
                The Derwent World Patents Index suite of databases on STN
                has been enhanced and reloaded
                CHEMLIST enhanced with new search and display field
NEWS 17. OCT 30
NEWS 18 NOV 03
                JAPIO enhanced with IPC 8 features and functionality
NEWS 19 NOV 10
                CA/CAplus F-Term thesaurus enhanced
NEWS 20 NOV 10
                STN Express with Discover! free maintenance release Version
                8.01c now available
NEWS 21 NOV 13
                CA/CAplus pre-1967 chemical substance index entries enhanced
                with preparation role
```

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

=> file medline, biosis, wpids, dgene COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 10:49:38 ON 20 NOV 2006

FILE 'BIOSIS' ENTERED AT 10:49:38 ON 20 NOV 2006 Copyright (c) 2006 The Thomson Corporation

FILE 'WPIDS' ENTERED AT 10:49:38 ON 20 NOV 2006 COPYRIGHT (C) 2006 THE THOMSON CORPORATION

FILE 'DGENE' ENTERED AT 10:49:38 ON 20 NOV 2006 COPYRIGHT (C) 2006 THE THOMSON CORPORATION

=> s triacylglycerol and production

L1 2485 TRIACYLGLYCEROL AND PRODUCTION

=> s triacylglycerol production

L2 96 TRIACYLGLYCEROL PRODUCTION

=> s l1 and l2

L3 96 L1 AND L2

=> s 13 and (enzyme)

L4 45 L3 AND (ENZYME)

=> s 14 and (acyl-CoA-independent reaction)
L5 34 L4 AND (ACYL-COA-INDEPENDENT REACTION)

=> d 15 ti abs ibib 1-15

L5 ANSWER 1 OF 34 WPIDS COPYRIGHT 2006

THE THOMSON CORP on STN

- TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content
- AN 2000-665012 [64] WPIDS
- AB WO 2000060095 A2 UPAB: 20050831

NOVELTY - An enzyme catalyzing (in an acyl-

CoA-independent reaction) the transfer of

fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a nucleotide sequence encoding the enzyme, or a partial nucleotide sequence corresponding to the full length nucleotide sequence that encodes the enzyme;
- (2) a gene construct comprising the nucleotide sequence operably linked to a heterologous nucleic acid;
- (3) a vector comprising the nucleotide sequence or the gene construct;
- (4) a transgenic cell or organism containing the nucleotide sequence and/or the gene construct and/or the vector;
- (5) a process for producing triacylglycerol comprising growing the transgenic cell organism under conditions where the nucleotide sequence is expressed; and
  - (6) triacylglycerol produced by the process of (5).

USE - The enzyme and the nucleotides encoding them are useful for producing triacylglycerol and/or triacyglycerol with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism.

ACCESSION NUMBER:

2000-665012 [64] WPIDS

DOC. NO. CPI:

C2000-201465 [64]

TITLE:

Phospholipid:diacylglycerol acyltransferase enzymes in

the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content

DERWENT CLASS:

C06; D16; D23; E17; P13; P14

INVENTOR:

BANAS A; DAHLQVIST A; LEDMAN M; LENMAN M; RONNE H; STAHL

U; STYMNE S

PATENT ASSIGNEE:

(BADI-C) BASF PLANT SCI GMBH

COUNTRY COUNT:

00

#### PATENT INFO ABBR.:

PAT	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN	IPC
WO	2000060095	A2	20001012	(200064)*	EN	97[6]		
ΑU	2000038147	Α	20001023	(200107)	EN			
NO	2001004716	Α	20011128	(200208)	NO			
ΕP	1165803	A2	20020102	(200209)	EN			
CZ	2001003529	<b>A3</b>	20020213	(200221)	CS			
BR	2000009510	Α	20020423	(200235)	PT			
KR	2001112396	Α	20011220	(200239)	KO			
SK	2001001387	<b>A</b> 3	20020604	(200247)	SK			
HU	2002000480	A2	20020729	(200258)	HU		ř	
JP	2002541783	W	20021210	(200301)	JA	90		
CN	1362994	Α	20020807	(200304)	ZH			
NZ	514227	Α	20031219	(200404)	EN.			
MX	2001009577	A1	20030701	(200420)	ES			
ΑU	777031	B2	20040930	(200480)	EN			
RU	2272073	C2	20060320	(200620)	RU			
CN	1230541	C	20051207	(200654)	ZH	•		

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION DATE
WO 2000060099 AU 200003814 AU 777031 B2 BR 2000009510 CN 1362994 A EP 1165803 A JP 200254178 NZ 514227 A NO 2001004710 EP 1165803 A CZ 2001003529 BR 2000009510 SK 200100138 HU 2002000480	5 A2 7 A 9	WO 2000-EP2701 20000328 AU 2000-38147 20000328 AU 2000-38147 20000328 BR 2000-9510 20000328 CN 2000-805998 20000328 EP 2000-917001 20000328 JP 2000-609586 20000328 NZ 2000-514227 20000328 WO 2000-EP2701 20000328
JP 2002541783 NZ 514227 A	3 W	
JP 2002541783 NZ 514227 A	3 W	WO 2000-EP2701 20000328 WO 2000-EP2701 20000328
MX 2001009577 RU 2272073 CZ CZ 2001003529	:	WO 2000-EP2701 20000328 WO 2000-EP2701 20000328 CZ 2001-3529 20000328

RU 2272073 C2	· RU	2001-129499 20000328
SK 2001001387 A	N3 SF	2001-1387 20000328
MX 2001009577 A	A1 MX	2001-9577 20010924
NO 2001004716 A	NC	2001-4716 20010928
KR 2001112396 A	A KF	2001-712623 20010929
HU 2002000480 A	A2 HU	2002-480 20000328
CN 1230541 C	CN	2000-805998 20000328

#### FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 777031	B2	Previous Publ	AU 2000038147 A
AU 2000038147	Α	Based on	WO 2000060095 A
EP 1165803	A2	Based on	WO 2000060095 A
.CZ 2001003529	A3	Based on	WO 2000060095 A
BR 2000009510	Α	Based on	WO 2000060095 A
SK 2001001387	A3	Based on	WO 2000060095 A
HU 2002000480	A2	Based on	WO 2000060095 A
JP 2002541783	W	Based on	WO 2000060095 A
NZ 514227	Α	Based on	WO 2000060095 A
MX 2001009577	A1	Based on	WO 2000060095 A
AU 777031	B2	Based on	WO 2000060095 A
RU 2272073	C2	Based on	WO 2000060095 A

PRIORITY APPLN. INFO: US 2000-180687P 20000207 EP 1999-106656 19990401 EP 1999-111321 19990610

L5 ANSWER 2 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24267 Protein DGENE

The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the Zea mays PDAT amino acid sequence.

ACCESSION NUMBER: AAB24267 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97 APPLICATION INFO: WO 2000-EP2701 20000328

PRIORITY INFO: WO 2000-EP2701 20000328

PRIORITY INFO: EP 1999-106656 19990401

EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent CLANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

CROSS REFERENCES: N-PSDB: AAC64445

DESCRIPTION: Zea mays PDAT amino acid sequence SEQ ID NO:7b.

L5 ANSWER 3 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for

transforming any cell or organism to increase oil content -

AN AAB24266 Protein DGENE

The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence

represents the yeast (Saccharomyces cerevisiae) PDAT amino acid sequence.

ACCESSION NUMBER: AAB24266 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-665012 [64] CROSS REFERENCES: N-PSDB: AAC64441

DESCRIPTION: Saccharomyces cerevisiae PDAT amino acid sequence SEQ ID

NO:2b.

L5 ANSWER 4 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24265 Protein DGENE

The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the yeast (Saccharomyces cerevisiae) PDAT ORF (open reading frame) amino acid sequence.

ACCESSION NUMBER: AAB24265 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol

production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-665012 [64] CROSS REFERENCES: N-PSDB: AAC64440

DESCRIPTION: Saccharomyces cerevisiae PDAT ORF amino acid sequence SEQ ID

NO:5a.

L5 ANSWER 5 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic

pathway for triacylglycerol production and DNAs

encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24264 Protein DGENE

AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the

transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of

triacylglycerol (TAG). The enzyme is designated as

phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme

and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be

expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24264 Protein DGENE

TITLE: Phospholipid:diacylqlycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328 PRIORITY INFO: EP 1999-106656 19990401 EP 1999-111321 19990610 US 2000-180687 20000207

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:3a.

- L5 ANSWER 6 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
- Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -
- AN AAB24263 Protein DGENE
- AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of

triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents an Arabidopsis thaliana PDAT amino acid sequence.

ACCESSION NUMBER: AAB24263 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:2a.

L5 ANSWER 7 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24262 Protein DGENE

The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the yeast (Saccharomyces cerevisiae) PDAT ORF (open reading frame) amino acid sequence.

ACCESSION NUMBER: AAB24262 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI)BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97
APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401

EP 1999-106656 19990401 EP 1999-111321 19990610 US 2000-180687 20000207

DOCUMENT TYPE:

Patent English

LANGUAGE: English
OTHER SOURCE: 2000-665012 [64]

DESCRIPTION: Saccharomyces cerevisiae PDAT ORF amino acid sequence SEQ ID

NO:1a.

```
ANSWER 8 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
L_5
TI
      Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
      pathway for triacylglycerol production and DNAs
      encoding them, useful for producing triacylglycerol, or for
      transforming any cell or organism to increase oil content -
      AAB24261 Protein
AN
                              DGENE
AΒ
      The present invention describes an enzyme for catalysing (in an
      acyl-CoA-independent reaction) the
      transfer of fatty acids from phospholipids to diacylglycerol in the
      biosynthetic pathway for the production of
      triacylglycerol (TAG). The enzyme is designated as
      phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
      and the nucleotides encoding them are useful for producing TAG and/or TAG
      with uncommon fatty acids. The enzyme and the nucleotide are
      also useful for transforming any cell or organism in order to be
      expressed in this cell or organism and result in an altered, preferably
      increased oil content of this cell or organism. The present sequence
      represents an Arabidopsis thaliana PDAT amino acid sequence.
ACCESSION NUMBER: AAB24261 Protein
                                          DGENE
TITLE:
                  Phospholipid:diacylglycerol acyltransferase enzymes in the
                  biosynthetic pathway for triacylglycerol
                  production and DNAs encoding them, useful for
                  producing triacylglycerol, or for transforming any
                  cell or organism to increase oil content -
                  Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
INVENTOR:
PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.
PATENT INFO:
                  WO 2000060095
                                 A2 20001012
                                                             97
APPLICATION INFO: WO 2000-EP2701
                                       20000328
PRIORITY INFO:
                  EP 1999-106656
                                       19990401
                  EP 1999-111321
                                      19990610
                  US 2000-180687
                                      20000207
DOCUMENT TYPE:
                  Patent
LANGUAGE:
                  English
OTHER SOURCE:
                  2000-665012 [64]
DESCRIPTION:
                  Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:15.
L5
      ANSWER 9 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
ΤI
      Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic
      pathway for triacylglycerol production and DNAs
      encoding them, useful for producing triacylglycerol, or for
      transforming any cell or organism to increase oil content -
AN
      AAB24260 Protein
                              DGENE
      The present invention describes an enzyme for catalysing (in an
AB
      acyl-CoA-independent reaction) the
      transfer of fatty acids from phospholipids to diacylglycerol in the
      biosynthetic pathway for the production of
      triacylglycerol (TAG). The enzyme is designated as
      phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
      and the nucleotides encoding them are useful for producing TAG and/or TAG
      with uncommon fatty acids. The enzyme and the nucleotide are
      also useful for transforming any cell or organism in order to be
      expressed in this cell or organism and result in an altered, preferably
      increased oil content of this cell or organism. The present sequence
      represents an Arabidopsis thaliana PDAT amino acid sequence.
ACCESSION NUMBER: AAB24260 Protein
                                          DGENE
TITLE:
                  Phospholipid:diacylqlycerol acyltransferase enzymes in the
                  biosynthetic pathway for triacylglycerol
                  production and DNAs encoding them, useful for
                  producing triacylglycerol, or for transforming any
                  cell or organism to increase oil content -
INVENTOR:
                  Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
```

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97 APPLICATION INFO: WO 2000-EP2701 20000328 PRIORITY INFO: EP 1999-106656 19990401 EP 1999-111321 19990610 US 2000-180687 20000207 DOCUMENT TYPE: Patent LANGUAGE: English OTHER SOURCE: 2000-665012 [64] Arabidopsis thaliana PDAT amino acid sequence SEQ ID NO:14. DESCRIPTION: ANSWER 10 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN L5 TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -AN AAB24259 Protein DGENE AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence represents the Schizosaccharomyces pombe PDAT amino acid sequence. ACCESSION NUMBER: AAB24259 Protein DGENE Phospholipid:diacylglycerol acyltransferase enzymes in the TITLE: biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH. PATENT INFO: WO 2000060095 A2 20001012 97 APPLICATION INFO: WO 2000-EP2701 20000328 PRIORITY INFO: EP 1999-106656 19990401 EP 1999-111321 19990610 US 2000-180687 20000207 DOCUMENT TYPE: Patent LANGUAGE: English OTHER SOURCE: 2000-665012 [64] DESCRIPTION: Schizosaccharomyces pombe PDAT amino acid sequence SEQ ID NO:13. L5 ANSWER 11 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN ΤI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -AN AAB24258 Protein DGENE .AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of triacylglycerol (TAG). The enzyme is designated as phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be

expressed in this cell or organism and result in an altered, preferably

increased oil content of this cell or organism. The present sequence represents the Zea mays PDAT protein.

ACCESSION NUMBER: AAB24258 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol

production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328
PRIORITY INFO: EP 1999-106656 19990401
EP 1999-111321 19990610
US 2000-180687 20000207

DOCUMENT TYPE: Patent

LANGUAGE: Facence English

OTHER SOURCE: 2000-665012 [64] CROSS REFERENCES: N-PSDB: AAC64435

DESCRIPTION: Zea mays EST PDAT protein sequence SEQ ID NO:8.

L5 ANSWER 12 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs

encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AN AAB24257 Protein DGENE

AB The present invention describes an enzyme for catalysing (in an acyl-CoA-independent reaction) the

transfer of fatty acids from phospholipids to diacylglycerol in the biosynthetic pathway for the production of

triacylglycerol (TAG). The enzyme is designated as

phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme

and the nucleotides encoding them are useful for producing TAG and/or TAG with uncommon fatty acids. The enzyme and the nucleotide are

also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence

represents the Arabidopsis thaliana PDAT protein.

ACCESSION NUMBER: AAB24257 Protein DGENE

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR: Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO: WO 2000060095 A2 20001012 97

APPLICATION INFO: WO 2000-EP2701 20000328 PRIORITY INFO: EP 1999-106656 19990401 EP 1999-111321 19990610

US 2000-180687 20000207

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: 2000-665012 [64] CROSS REFERENCES: N-PSDB: AAC64434

DESCRIPTION: Arabidopsis thaliana PDAT protein SEQ ID NO:6.

L5 ANSWER 13 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway for triacylglycerol production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content

```
AAB24256 Protein
                              DGENE
AN
      The present invention describes an enzyme for catalysing (in an
AΒ
      acyl-CoA-independent reaction) the
      transfer of fatty acids from phospholipids to diacylglycerol in the
      biosynthetic pathway for the production of
      triacylglycerol (TAG). The enzyme is designated as
      phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
      and the nucleotides encoding them are useful for producing TAG and/or TAG
      with uncommon fatty acids. The enzyme and the nucleotide are
      also useful for transforming any cell or organism in order to be
      expressed in this cell or organism and result in an altered, preferably
      increased oil content of this cell or organism. The present sequence
      represents the yeast (Saccharomyces cerevisiae) PDAT protein.
ACCESSION NUMBER: AAB24256 Protein
                                          DGENE
TITLE:
                  Phospholipid:diacylglycerol acyltransferase enzymes in the
                  biosynthetic pathway for triacylglycerol
                  production and DNAs encoding them, useful for
                  producing triacylglycerol, or for transforming any
                  cell or organism to increase oil content -
INVENTOR:
                  Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
                  (BADI) BASF PLANT SCI GMBH.
PATENT ASSIGNEE:
PATENT INFO:
                  WO 2000060095
                                  A2 20001012
                                                              97
APPLICATION INFO: WO 2000-EP2701
                                       20000328
PRIORITY INFO:
                  EP 1999-106656
                                       19990401
                  EP 1999-111321
                                       19990610
                  US 2000-180687
                                       20000207
DOCUMENT TYPE:
                  Patent
LANGUAGE:
                  English
OTHER SOURCE:
                  2000-665012 [64]
CROSS REFERENCES: N-PSDB: AAC64431
DESCRIPTION:
                  Saccharomyces cerevisiae PDAT protein sequence SEQ ID NO:2.
L5
      ANSWER 14 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI
      Phospholipid:diacylqlycerol acyltransferase enzymes in the biosynthetic
      pathway for triacylglycerol production and DNAs
      encoding them, useful for producing triacylglycerol, or for
      transforming any cell or organism to increase oil content -
AN
      AAC64451 DNA
                          DGENE
AB
      The present invention describes an enzyme for catalysing (in an
      acyl-CoA-independent reaction) the
      transfer of fatty acids from phospholipids to diacylglycerol in the
      biosynthetic pathway for the production of
      triacylglycerol (TAG). The enzyme is designated as
      phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme
      and the nucleotides encoding them are useful for producing TAG and/or TAG
      with uncommon fatty acids. The enzyme and the nucleotide are
      also useful for transforming any cell or organism in order to be
      expressed in this cell or organism and result in an altered, preferably
      increased oil content of this cell or organism. The present sequence
      represents a PCR primer for yeast (Saccharomyces cerevisiae) PDAT.
ACCESSION NUMBER: AAC64451 DNA
                                      DGENE
TITLE:
                  Phospholipid:diacylglycerol acyltransferase enzymes in the
                  biosynthetic pathway for triacylglycerol
                  production and DNAs encoding them, useful for
                  producing triacylglycerol, or for transforming any
                  cell or organism to increase oil content -
INVENTOR:
                  Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S
PATENT ASSIGNEE:
                 (BADI)BASF PLANT SCI GMBH.
PATENT INFO:
                 WO 2000060095
                                 A2 20001012
                                                             97
APPLICATION INFO: WO 2000-EP2701
                                       20000328
                 EP 1999-106656
PRIORITY INFO:
                                       19990401
                  EP 1999-111321
                                       19990610
                  US 2000-180687
```

20000207

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2000-665012 [64]

DESCRIPTION:

Saccharomyces cerevisiae PDAT PCR primer #2.

L5 ANSWER 15 OF 34 DGENE COPYRIGHT 2006 The Thomson Corp on STN

ΤI Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic

pathway for triacylglycerol production and DNAs

encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content -

AAC64450 DNA **DGENE** AN

The present invention describes an enzyme for catalysing (in an AB

acyl-CoA-independent reaction) the

transfer of fatty acids from phospholipids to diacylglycerol in the

biosynthetic pathway for the production of

triacylglycerol (TAG). The enzyme is designated as

phospholipid:diacylglycerol acyltransferase (PDAT). The enzyme

and the nucleotides encoding them are useful for producing TAG and/or TAG

with uncommon fatty acids. The enzyme and the nucleotide are

also useful for transforming any cell or organism in order to be

expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism. The present sequence

represents a PCR primer for yeast (Saccharomyces cerevisiae) PDAT.

ACCESSION NUMBER: AAC64450 DNA DGENE

TITLE:

Phospholipid:diacylglycerol acyltransferase enzymes in the

biosynthetic pathway for triacylglycerol

production and DNAs encoding them, useful for producing triacylglycerol, or for transforming any

cell or organism to increase oil content -

INVENTOR:

Dahlqvist A; Stahl U; Lenman M; Banas A; Ronne H; Stymne S

PATENT ASSIGNEE: (BADI) BASF PLANT SCI GMBH.

PATENT INFO:

A2 20001012 WO 2000060095 97

APPLICATION INFO: WO 2000-EP2701 PRIORITY INFO:

20000328 EP 1999-106656 19990401

EP 1999-111321 19990610 US 2000-180687 20000207

DOCUMENT TYPE:

Patent

LANGUAGE:

English

OTHER SOURCE:

2000-665012 [64]

DESCRIPTION:

Saccharomyces cerevisiae PDAT PCR primer #1.

# Refine Search

### Search Results -

Terms	Documents
L4 and L3	1

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

Database: EPO Abstracts Database

EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L5

Refine Search

Recall Text 👄

Clear

Interrupt

# **Search History**

DATE: Monday, November 20, 2006 Purge Queries Printable Copy Create Case

Set Name Query side by side

Hit Count Set Name

result set

DB=USPT: PLUR=YES: OP=OR

	021 1, 1 2011 120, 01		
<u>L5</u>	L4 and l3	1	<u>L5</u>
<u>L4</u>	dahlqvist.in.	23	<u>L4</u>
<u>L3</u>	L2 and (acyl-CoA independent)	27796	<u>L3</u>
<u>L2</u>	L1 and (enzyme)	91610	<u>L2</u>
<u>L1</u>	triacylglycerol production	819119	<u>L1</u>

END OF SEARCH HISTORY

# **Hit List**

First Hig Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

# **Search Results -** Record(s) 1 through 1 of 1 returned.

1. Document ID: US 6791008 B1

L5: Entry 1 of 1

File: USPT

Sep 14, 2004

US-PAT-NO: 6791008

DOCUMENT-IDENTIFIER: US 6791008 B1

TITLE: Use of a class of enzymes and their encoding genes to increase the oil content in

transgenic organisms

DATE-ISSUED: September 14, 2004

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Banas; Antoni	Siedlce			PL
Sandager; Line	Copenhagen			DK
St.ang.hl; Ulf	Uppsala			SE
<u>Dahlqvist</u> ; Anders	Furulund			SE
Lenman; Marit	Lund			SE
Ronne; Hans	Uppsala			SE
Stymne; Sten	Svalov			SE

US-CL-CURRENT: 800/281; 435/224, 435/471, 435/483, 536/23.1, 536/23.2, 536/23.7, 800/278,

800/298, 800/306

Full Title Citation Front Review Classific	tion Date Reference Claims KMC Draw Desc	lma
Clear Generate Collection	Print Fwd Refs Bkwd Refs Generate OACS	 
,		
L4 and L3	Documents 1	

Display Format: CIT Change Format

Previous Page Next Page Go to Doc#